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DATE MAILED: 03/19/2008

NOTICE OF ALLOWANCE AND FEE(S) DUE

27123 7590 03/19/2008 MORGAN & FINNEGAN, L.L.P. 3 WORLD FINANCIAL CENTER NEW YORK. NY 10281-2101 EXAMINER
THOMPSON, JAMES A

ART UNIT PAPER NUMBER
2625

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/772.658	01/30/2001	Norivoshi Chizawa	1232-4677	2163

TITLE OF INVENTION: IMAGE CORRECTION IN IMAGE SENSING SYSTEM INCLUDING IMAGE SENSING APPARATUS AND IMAGE PROCESSING APPARATUS

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/19/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT AGRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This I appropriate. All further c indicated unless corrected maintenance fee notificati	form should be used I orrespondence including I below or directed off ons.	or tran ng the l nerwise	smitting the ISSU Patent, advance of in Block 1, by (a					nould be completed where correspondence address a rate "FEE ADDRESS" fo
CUKRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Not Fee pap	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
27123	7590 03/19	V2008		III.			of Mailing or Trans	
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								(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
09/772,658	01/30/2001			Noriyoshi Chizawa			1232-4677	2163
TITLE OF INVENTION PROCESSING APPARA		ION I	N IMAGE SENS	ING SYSTEM INCLUD	ING IMAGE SET	NSING	APPARATUS AND	IMAGE
APPLN. TYPE	SMALL ENTITY	ISS	SUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1440	\$300	\$0		\$1740	06/19/2008
EXAMI	NER		ART UNIT	CLASS-SUBCLASS	1			
THOMPSON,	JAMES A		2625	358-001900	J			
1. Change of correspondence address or indication of "Fee Address" (3° CFR 1.363). Change of correspondence address (or Change of Correspondence Address from PTO/SB/122) attached. The Address' indication (or "Fee Address' Indication form PTO/SB/124, Nov 0-10-20 or more recent) attached. Use of a Customs Number is required.			Correspondence ation form e of a Customer	(1) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or a 2 registered patent atto listed, no name will be	2. For printing on the patent front page, list (1) the names of up to 3 registred patent attorneys 1. cragents OR, alternatively. (2) the name of a single firm through early as member a 2-registred attorney or agent) and the names of up to 2-registred attorney or agent) and the names of up to 3 listed, no name will be printed.			
(A) NAME OF ASSIG	ss an assignee is ident in 37 CFR 3.11. Com NEE	ified be oletion	elow, no assignee of this form is NO	data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assign assignment. ' and STATE OR C	OUNT	RY)	ocument has been filed for
Please check the appropria	te assignee category or	catego	ries (will not be pr	inted on the patent):	Individual UCo	orporati	ion or other private gro	sup entity 🔲 Government
4a. The following fee(s) at Issue Fee Publication Fee (No	small entity discount p	oermitte		o. Payment of Fee(s): (Ples A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	isatta	sched.	
5. Change in Entity State a. Applicant claims	SMALL ENTITY state	ıs. See	37 CFR 1.27.	☐ b. Applicant is no lon				
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if req cords of the United Sta	uired) v ites Pate	vill not be accepte ent and Trademark	d from anyone other than t Office.	he applicant; a regi	stered :	attorney or agent; or th	e assignee or other party ir
Authorized Signature _					Date			
Typed or printed name					Registration N			
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

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MORGAN & FINNEGAN, L.L.P.			THOMPSON, JAMES A		
3 WORLD FINANCIAL CENTER NEW YORK, NY 10281-2101			ART UNIT PAPER NUMBER		
			2625		

DATE MAILED: 03/19/2008

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 714 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 714 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)			
09/772,658	CHIZAWA, NORIYOSHI			
Examiner	Art Unit			
Ismee A Thompson	2625			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 21 December 2007.
- 2. The allowed claim(s) is/are 1-14 and 86.
- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1. X Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date 12/21/07
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date ______.
- 7.

 Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other _____.

Application/Control Number: 09/772,658

Art Unit: 2625

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR
1.17(e), was filed in this application after final rejection. Since this application is eligible for continued
examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the
finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's
submission filed on 21 December 2007 has been entered.

Response to Arguments

2. Applicant's arguments, see pages 7-11, filed 21 December 2007, with respect to the rejections of the claims under 35 U.S.C. § 103(a) have been fully considered and are persuasive. The rejections of the claims under 35 U.S.C. § 103(a) set forth in the previous office action mailed 21 September 2007 have been withdrawn. Applicant's present amendments to the claims distinguishes over the previously cited prior art references. Furthermore, Examiner has not discovered any additional prior art which anticipates the claims and/or renders the claims obvious to one of ordinary skill in the art at the time of the invention.

Allowable Subject Matter

Claims 1-14 and 86 are allowed.

The following is an examiner's statement of reasons for allowance:

Claims 1 and 86 recite a system and an apparatus, respectively, that corrects for line deviations based on the spacing between the plurality of photoelectric conversion element arrays, and for the spatial positional deviations of the individual pixel signals formed for the plurality of colors. All of the photoelectric conversion elements are contained on a single chip. The line deviations and spatial positional deviations are stored and used to correct the sensed image data. Examiner has not found this particular combination of features in the prior art. Claims 1 and 86 have the advantage of correcting for both the positional inaccuracies between arrays on the chip and the smaller positional inaccuracies between the individually detected pixels through stored correction data. The closest prior art found is the combination of references cited in the previous office action, namely Orito (USPN 6,072,912), Taguchi (USPN 5,771,106), and Sugiura (USPN 4,679,074), which do not teach the smaller positional inaccuracies between the individually detected pixels. Thus, claims 1 and 86 are deemed allowable.

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Claims 2-14 depend ultimately from claim 1, and thus incorporate the limitations recited therein. Therefore, claims 2-14 are deemed allowable at least due to their respective dependencies.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Thompson whose telephone number is (571)272-7441. The examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L. Coles can be reached on 571-272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Edward L. Coles/ Supervisory Patent Examiner, Art Unit 2625 James A. Thompson /J. A. T./ Examiner, Art Unit 2625

09 March 2008